1. In a Young's double slit experiment using yellow light of wavelength 550 nm the fringe separation is 0.275 mm.

   (a) Find the slit separation if the fringes are 2.0 m from the slit.

   The yellow lamp is replaced with a purple one whose light is made of two colours, red light of 700 nm and violet light of 400 nm.

   (b) Find the distance between the violet fringes

   (c) Find the distance between the red fringes

2. Hobson Ch 13 Exercises 7,9,10,11,12,13 Problems 3,9,10,14

3. Hobson Ch 14 Exercises 31,32,33,34 Problems 4,5